

FIG. 1

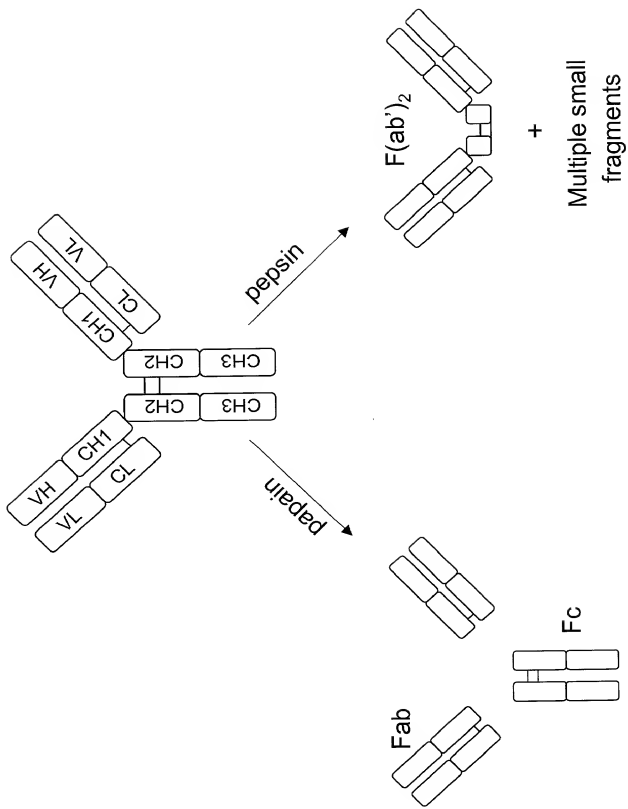


Fig.2A

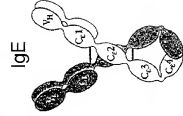
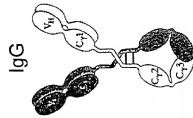


Fig.2C

Fig.2B

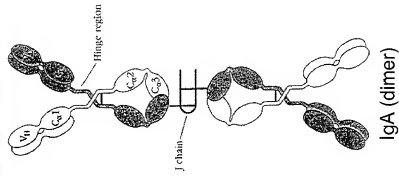


Fig.2D

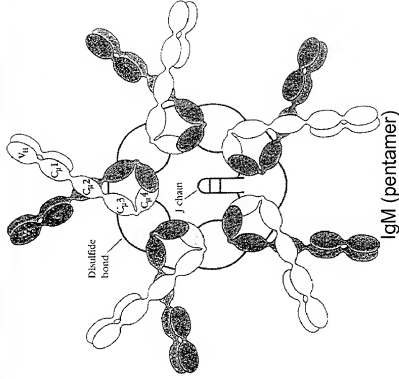


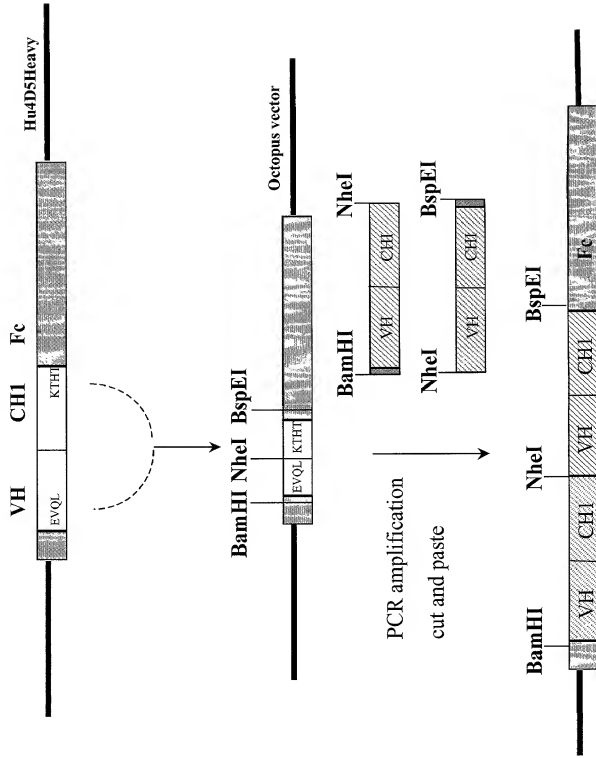
Fig.2E

	230	240	250	260	270
humIgG1	PAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVKFNWYV				
humIgG2	PAP - PVAGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFNWYV				
humIgG3	PAPELLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSHEDPEVQFKWYV				
humIgG4	PAPEFLGGPSVFLFPPKPKDTLMISRTPEVTCVVVDVSEQEDPEVQFNWYV				
murIgG1	---TVPEVSSVFIFFPKPKDVLITITLTPKVTCCVVVDISKDDPEVQFSWFV				
murIgG2A	PAPNLGGPSVFIFFPKIKDVLMLISLSPIVTCVVVDVSEDDPDVQISWFFV				
murIgG2B	PAPNLGGPSVFIFFPNIKDVLMLISLTPKVTCCVVVDVSEDDPDVQISWFFV				
murIgG3	PPGNILGGPSVFIFFPKPKDALMISLTPKVTCCVVVDVSEDDPDVHVSWFV				
humIgG1	280	290	300	310	320
humIgG2	DGVEVHNAKTKPREEQYNSTYRVVSVLTVLHQDWLNGKEYKCKVSNKALP				
humIgG3	DGVEVHNAKTKPREEQFNSTFRVSVSLTVVHQDWLNGKEYKCKVSNKGLP				
humIgG4	DGVEVHNAKTKPREEQFNSTFRVSVSLTVLHQDWLNGKEYKCKVSNKALP				
murIgG1	DDVEVHTAQTQPREEQFNSTFRVSVSELPIMHQDCLNGKEFKCRVNSAAPP				
murIgG2A	NNVEVHTAQTQTHREDYNSTLRVVSALPIQHQDWMSGKEFKCKVNNKDLPL				
murIgG2B	NNVEVHTAQTQTHREDYNSTIRVVSALPIQHQDWMSGKEFKCKVNNKDLPL				
murIgG3	DNKEVHTAWTQPREAQYNSTFRVVSALPIQHQDWMRGKEFKCKVNNKALP				
humIgG1	330	340	350	360	370
humIgG2	APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV				
humIgG3	D L				
humIgG4	APIEKTISKAKGQPREPQVYTLPPSREEMTKNQVSLTCLVKGFYPSDIAV				
murIgG1	APIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAV				
murIgG2A	APIEKTISKAKGQPREPQVYTLPPSQEEMTKNQVSLTCLVKGFYPSDIAV				
murIgG2B	APIERTISKPKGSRAPQVYVLPPEPEEMTKKQVTLTCLVTFDFMPEDIYV				
murIgG3	SPIERTISKPKGLVRAPQVYTLPPPAEQLSRKDVSLTCLVVGFNPGDISV				
humIgG1	380	390	400	410	420
humIgG2	EWESNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMH				
humIgG3	EWESNGQPENNYKTTTPPMLDSDGSFFLYSKLTVDKSRWQQGNVFSCSVMH				
humIgG4	EWZSNGQPENNYKTTTPVLDSDGSFFLYSKLTVDKSRWQEGNVFSCSVMH				
murIgG1	EWQWNGQPAENYKNTQPIMDTDGSYFYVSKLNVQKSNWEAGNTFTCSVLH				
murIgG2A	EWTNNGKTELNYKNTPEVLDSDGSYFYMSYKLREVEKKNWERNYSYCSVVH				
murIgG2B	EWTNNGHTEENYKDTAPVLDSDGSYFYIYSKLNMKTSKWEKTSDFSNCNVRH				
murIgG3	EWEENGELEQDYKNTPIILDSDGTYFLYSKLTVDTDSWLQGEIFTCSVVH				
humIgG1	430	440			
humIgG2	EALHNHYTQKSLSLSPGK				
humIgG3	EALHNHYTQKSLSLSPGK				
humIgG4	EALHNHYTQKSLSLSPGK				
murIgG1	EGLHNHHTKSLSLSPGK				
murIgG2A	EGLHNHHTKSLSLSPGK				
murIgG2B	EGLKNYLYKKTISRSPGK				
murIgG3	EALHNHHTQKNLSRSPGK				

Figure 3



**Fig. 5**



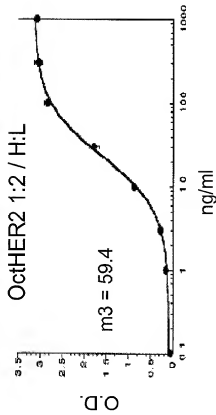


Fig. 6A

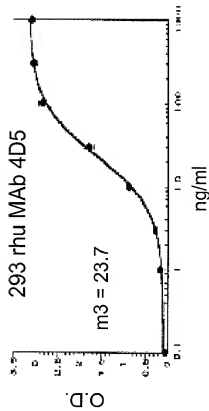


Fig. 6B

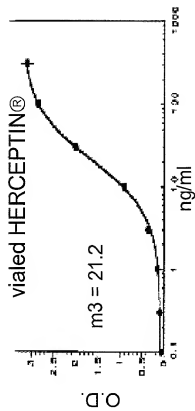


Fig. 6C

**Fig. 7**

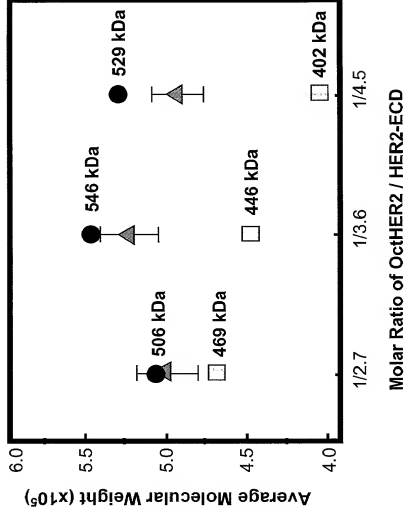


Fig.8A

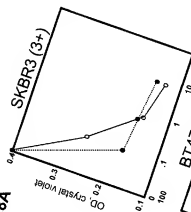


Fig.8C

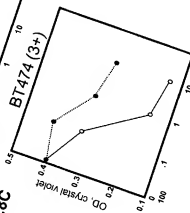


Fig.8B

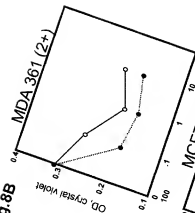
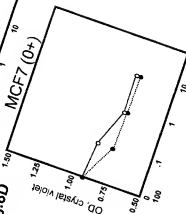


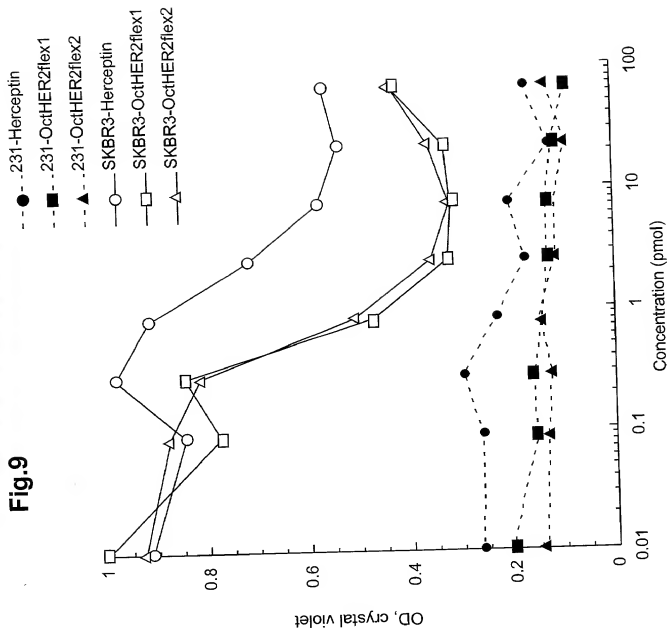
Fig.8D



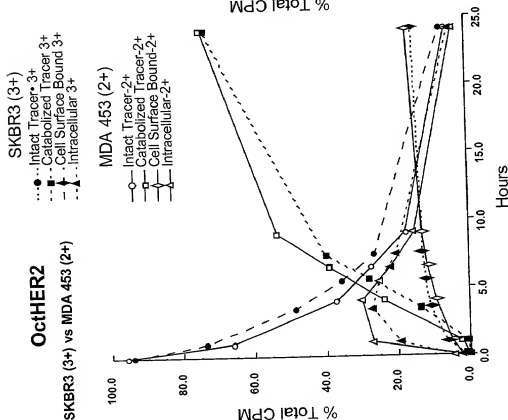
—○— Herceptin  
 .....●..... OctHER2



**Fig.9**

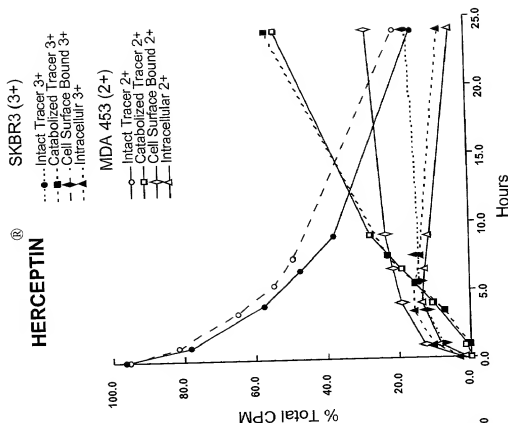


**OctHER2**  
SKBR3 (3+) vs MDA 453 (2+)



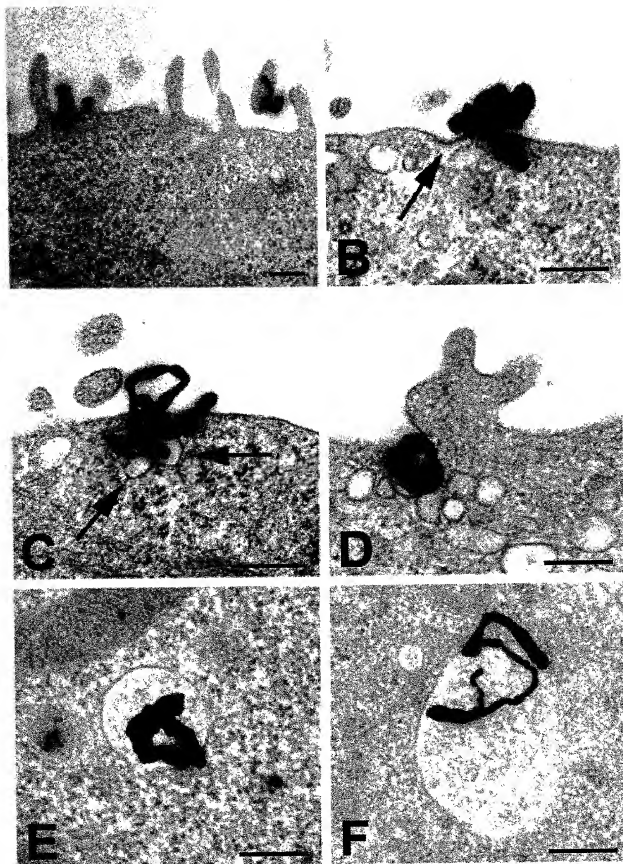
**Fig. 10A**

**HERCEPTIN**



**Fig. 10B**

Fig. 11 A-F



700000 1400000

Fig. 11G



Fig. 11H

OctHER2 - 5hr



Fig. 11 I

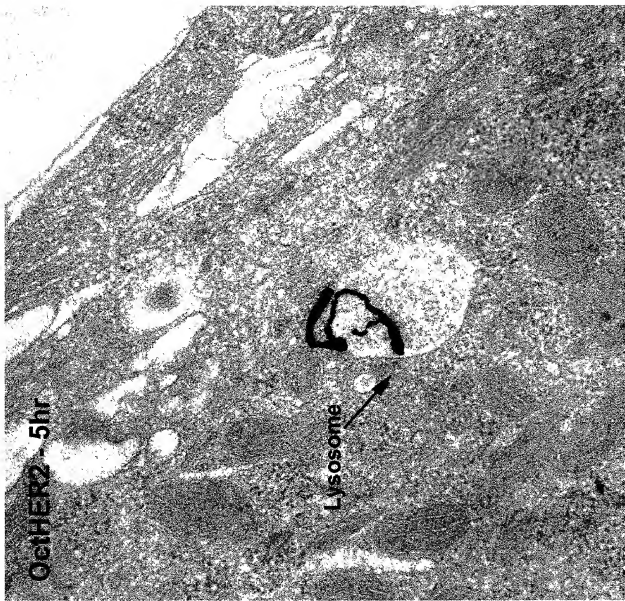


Fig. 12A

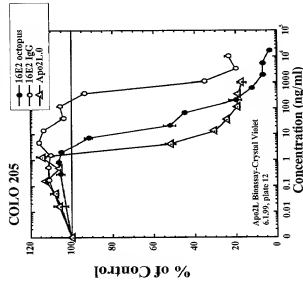


Fig. 12B

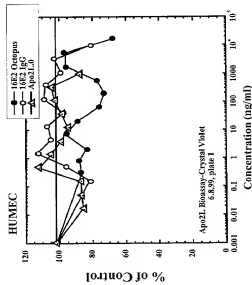
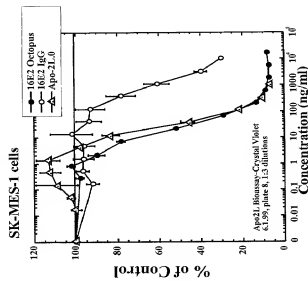


Fig. 12E

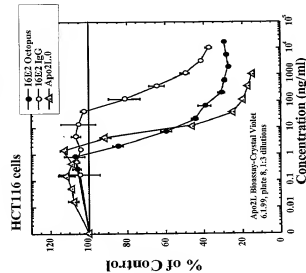


Fig. 12C

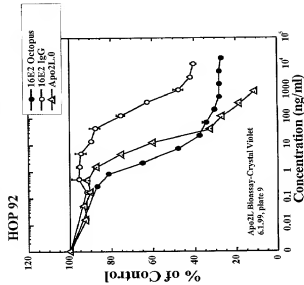


Fig. 12D

Fig. 13A

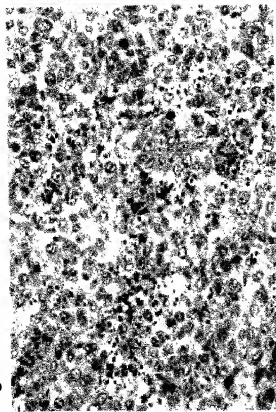


Fig. 13C

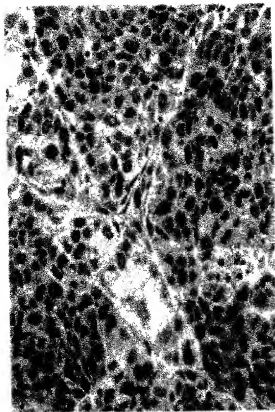


Fig. 13B

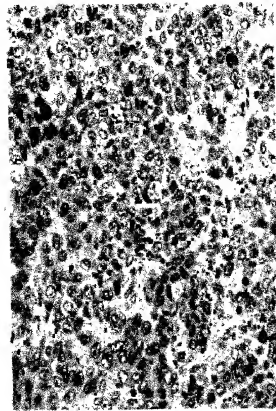


Fig. 13D

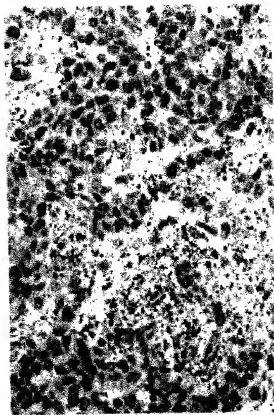




Fig. 14

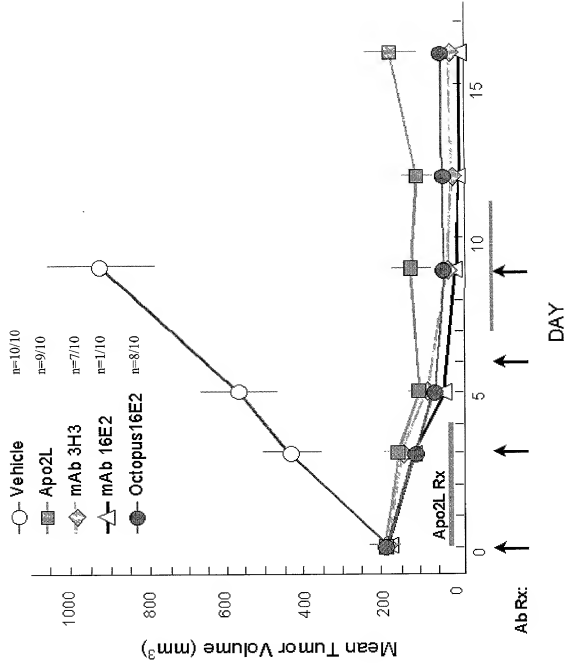


Fig. 15

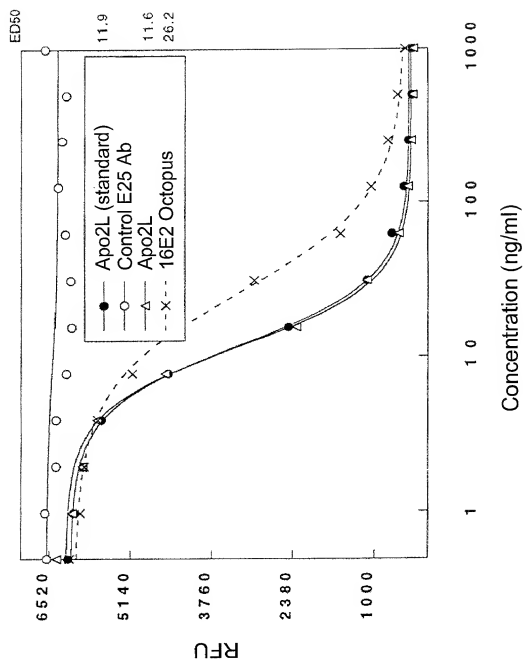


Fig. 16

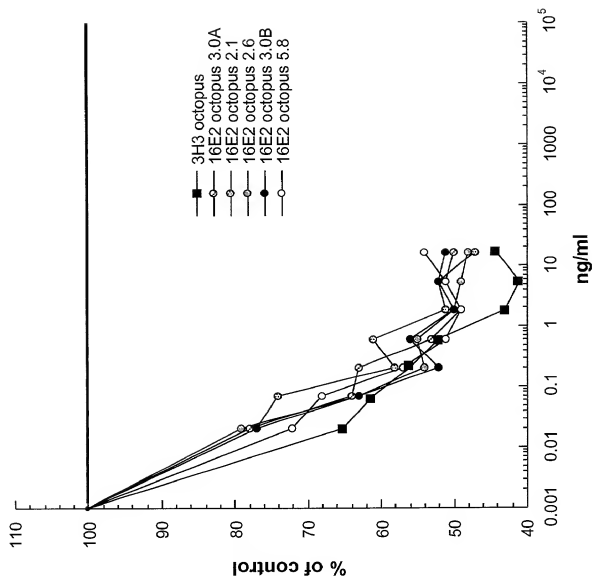


Fig. 17A

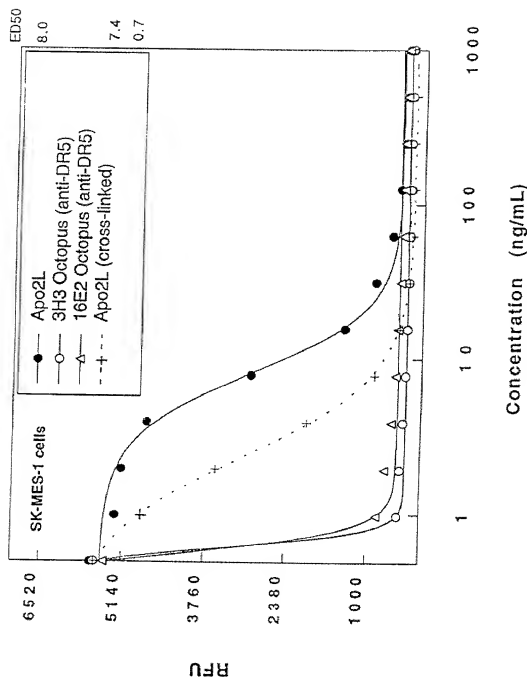


Fig. 17B

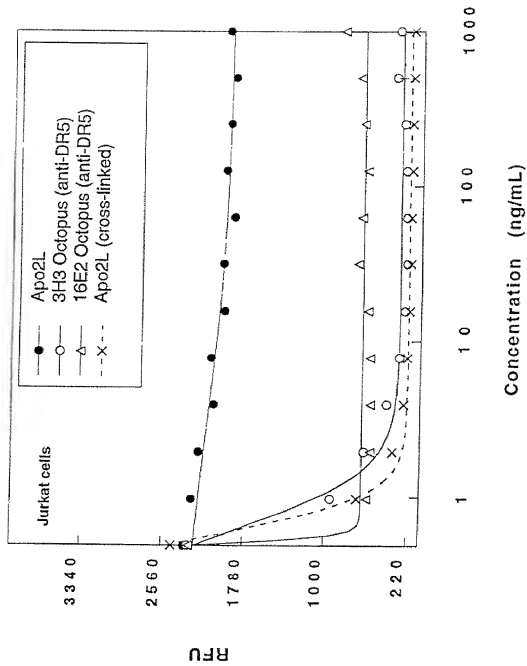
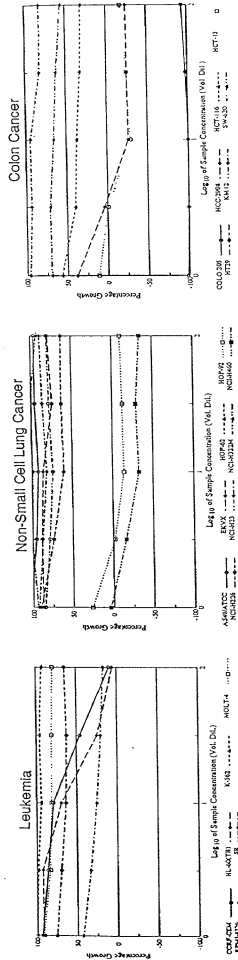
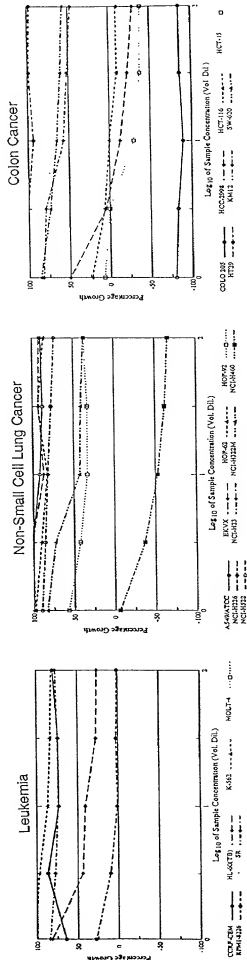


Fig. 18 A

16E2 Octopus (anti-DR5) - 2 day

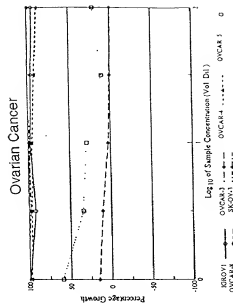
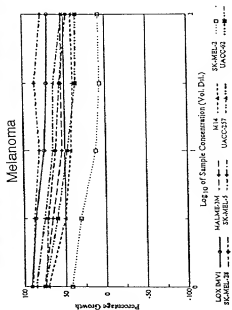
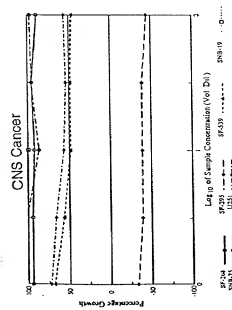


16E2 Octopus (anti-DR5) - 2 day

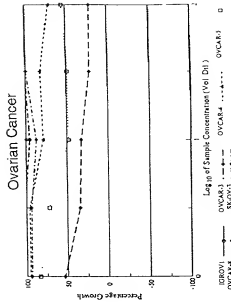
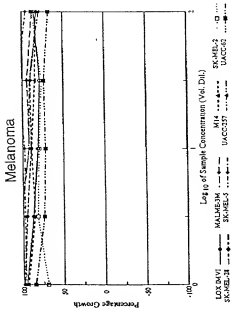
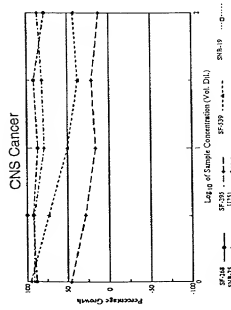


APO2L - 2 day

Fig. 18 B

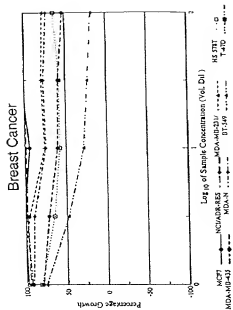
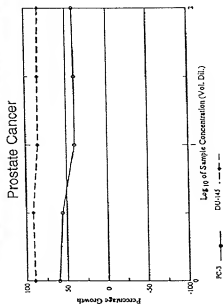
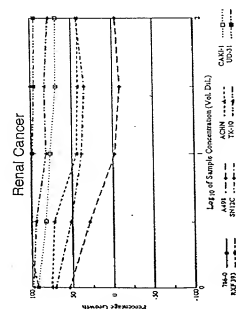


16E2 Octopus (anti-DR5) - 2 day

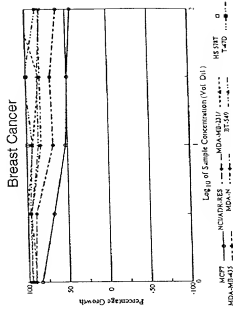
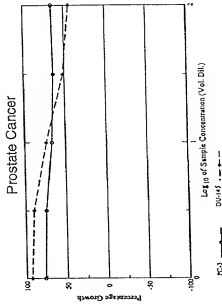
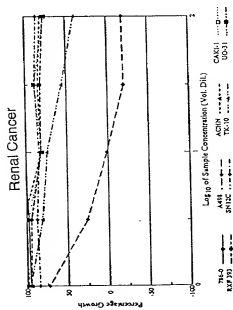


APO2L - 2 day

Fig. 18 C



16E2 Octopus (anti-DR5) - 2 day

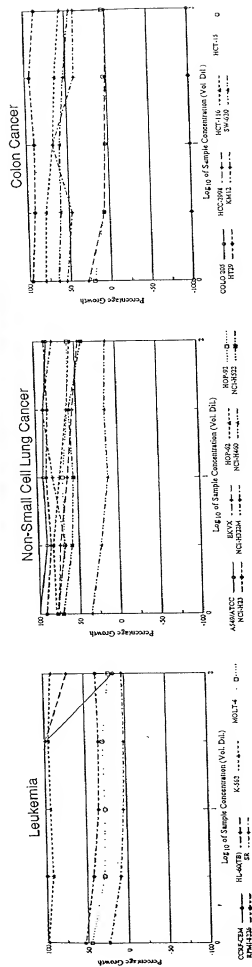


APO2L - 2 day

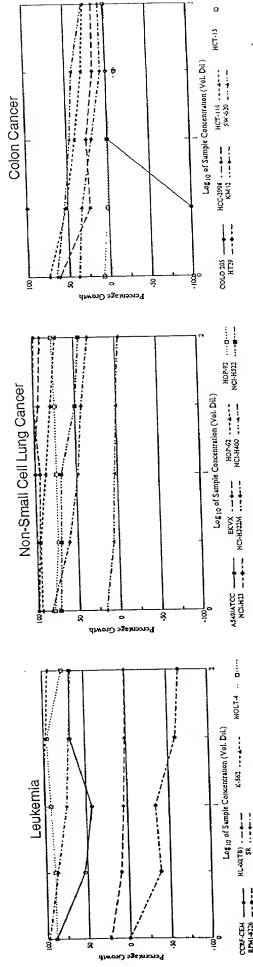


Fig. 19 A

TOP SECRET 0000



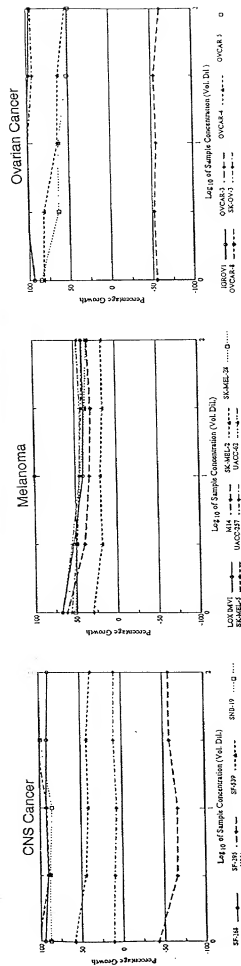
16E2 Octopus (anti-DR5) - 6 day



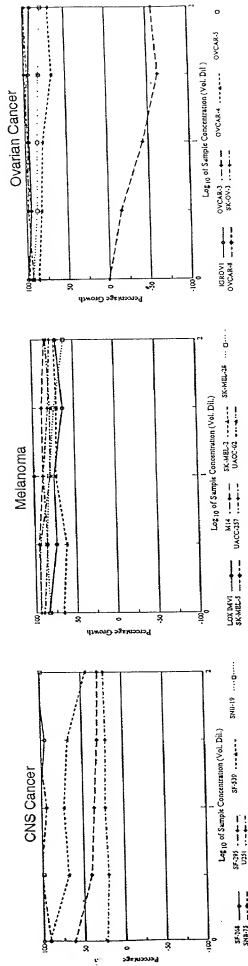
APO2L - 6 day

Fig. 19 B

FIGURE 19B



16E2 Octopus (anti-DR5) - 6 day



APO2L - 6 day

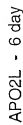
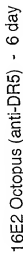
[illegible]

Fig. 20 A

# 76E2 Octopus (anti-DR5) - 2 day

Rep/Cell Line	Time Zero	Ctrl	Mean Optical Densities					Log10 Concentration					Percent Growth	G150	TGI	L250
			0.5	1.0	1.5	2.0	2.5	0.5	1.0	1.5	2.0	2.5				
Colony Cancer	CCRF-CEM	0.081	0.557	0.526	0.61	0.457	0.259	0.125	34	86	79	45	9	2.74E-01	1.00E-02	1.00E-02
	HL-60 (T8)	0.457	1.935	1.421	1.122	1.486	0.883	0.561	93	82	81	82	9	1.00E-02	1.00E-02	
	MDA-MB-231	0.081	0.557	0.526	0.61	0.457	0.259	0.125	34	86	79	45	9	2.74E-01	1.00E-02	
	MDA-MB-435	0.215	1.046	0.976	0.908	0.830	0.884	0.974	42	83	81	81	79	1.00E-02	1.00E-02	
	MDA-MB-436	0.335	1.102	1.067	1.009	0.947	0.937	0.959	76	70	63	62	5	1.00E-02	1.00E-02	
Non-Small Cell Lung Cancer	HOP-92	0.385	1.468	1.367	1.287	1.081	0.920	0.757	43	39	35	20	5	1.00E-02	1.00E-02	
	A549/ATCC	0.212	1.132	1.155	1.091	1.061	1.096	1.026	102	95	92	96	32	1.00E-02	1.00E-02	
	HOP-42	0.363	1.482	1.417	1.156	1.131	1.182	1.158	109	110	114	111	114	1.00E-02	1.00E-02	
	HOP-92	0.363	1.482	1.417	1.156	1.131	1.182	1.158	109	110	114	111	114	1.00E-02	1.00E-02	
	HOP-92	0.630	0.958	0.917	0.617	0.541	0.501	0.564	26	-2	-14	-13	10	1.00E-02	1.00E-02	
Colon Cancer	HCT-15	0.205	1.218	1.242	1.040	1.146	1.154	1.169	117	107	107	107	107	1.00E-02	1.00E-02	
	HCT-15	0.205	1.218	1.242	1.040	1.146	1.154	1.169	117	107	107	107	107	1.00E-02	1.00E-02	
	HCT-15	0.205	1.218	1.242	1.040	1.146	1.154	1.169	117	107	107	107	107	1.00E-02	1.00E-02	
	HCT-15	0.205	1.218	1.242	1.040	1.146	1.154	1.169	117	107	107	107	107	1.00E-02	1.00E-02	
	HCT-15	0.205	1.218	1.242	1.040	1.146	1.154	1.169	117	107	107	107	107	1.00E-02	1.00E-02	
Pancreatic Cancer	PM2	0.240	1.084	1.043	0.718	1.254	1.096	1.097	56	54	55	62	82	1.00E-02	1.00E-02	
	PM2	0.240	1.084	1.043	0.718	1.254	1.096	1.097	56	54	55	62	82	1.00E-02	1.00E-02	
	PM2	0.240	1.084	1.043	0.718	1.254	1.096	1.097	56	54	55	62	82	1.00E-02	1.00E-02	
	PM2	0.240	1.084	1.043	0.718	1.254	1.096	1.097	56	54	55	62	82	1.00E-02	1.00E-02	
	PM2	0.240	1.084	1.043	0.718	1.254	1.096	1.097	56	54	55	62	82	1.00E-02	1.00E-02	
Ovarian Cancer	SP-295	0.360	1.045	1.008	0.992	1.013	0.970	94	94	92	95	89	4	1.00E-02	1.00E-02	
	SP-295	0.360	1.045	1.008	0.992	1.013	0.970	94	94	92	95	89	4	1.00E-02	1.00E-02	
	SP-295	0.360	1.045	1.008	0.992	1.013	0.970	94	94	92	95	89	4	1.00E-02	1.00E-02	
	SP-295	0.360	1.045	1.008	0.992	1.013	0.970	94	94	92	95	89	4	1.00E-02	1.00E-02	
	SP-295	0.360	1.045	1.008	0.992	1.013	0.970	94	94	92	95	89	4	1.00E-02	1.00E-02	
Breast Cancer	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
Prostate Cancer	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
Metastatic Cancer	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	
	MDA-MB-231	0.350	0.732	0.643	0.600	0.595	0.597	0.553	77	65	53	54	3	1.00E-02	1.00E-02	

Panel/Cell Line	Time	Ctrl	Mean Optical Densities					Percent Growth					TOI	LC50
			Log10 Concentration					G550						
			0	0.5	1.0	1.5	2.0	0	0.5	1.0	1.5	2.0		
LeioCCP7-CEM	0.081	0.576	0.000	0.510	0.443	0.447	0.476	64	87	73	74	80	>1.00E-02	>1.00E-02
	0.487	1.926	1.660	1.118	1.074	0.881	0.897	102	44	87	83	82	>1.00E-02	>1.00E-02
	0.126	1.026	1.132	1.131	1.136	1.136	1.167	101	101	101	101	104	>1.00E-02	>1.00E-02
	0.315	1.284	0.599	0.477	0.348	0.359	0.345	28	10	1	2	1	>1.00E-02	>1.00E-02
	0.379	1.920	1.578	1.437	1.417	1.428	1.460	84	78	74	75	77	>1.00E-02	>1.00E-02
NonA549/ATCC	0.212	1.164	1.177	1.173	1.086	1.022	1.061	101	101	82	88	90	>1.00E-02	>1.00E-02
	0.561	1.238	1.377	1.188	1.203	1.136	1.136	98	90	83	94	86	>1.00E-02	>1.00E-02
	0.630	1.000	0.843	0.788	0.755	0.753	0.766	57	43	33	37	37	>1.00E-02	>1.00E-02
	0.269	0.642	0.651	0.621	0.677	0.653	0.650	102	102	102	105	>1.00E-02	>1.00E-02	
	0.488	1.265	1.138	1.054	0.821	0.808	0.719	84	73	43	41	37	>1.00E-02	>1.00E-02
MCF-8226	0.362	1.562	0.342	0.288	0.171	0.140	0.154	6	37	32	28	23	>1.00E-02	>1.00E-02
	0.374	0.762	0.725	0.705	0.691	0.674	0.657	56	87	82	78	75	>1.00E-02	>1.00E-02
	0.145	0.814	0.939	0.925	0.915	0.921	0.921	80	83	79	86	86	>1.00E-02	>1.00E-02
	0.384	0.575	0.756	0.483	0.389	0.348	0.349	23	7	0	10	9	>1.00E-02	>1.00E-02
	0.205	1.183	0.739	0.211	0.144	0.128	0.135	18	1	30	38	39	>1.00E-02	>1.00E-02
MCF-15	0.322	1.477	1.513	1.585	0.925	0.862	0.799	103	79	57	52	47	>1.00E-02	>1.00E-02
	0.134	0.862	0.748	0.744	0.674	0.632	0.607	86	74	65	60	57	>1.00E-02	>1.00E-02
	0.360	0.970	0.873	0.886	0.901	0.898	0.901	103	100	102	105	105	>1.00E-02	>1.00E-02
	0.512	1.273	0.862	0.728	0.636	0.670	0.603	46	28	16	21	12	>1.00E-02	>1.00E-02
	0.220	1.040	1.066	0.820	0.632	0.528	0.574	36	17	150	166	166	>1.00E-02	>1.00E-02
SK-MEL-28	0.326	0.664	0.423	0.617	0.618	0.634	0.589	58	52	87	91	78	>1.00E-02	>1.00E-02
	0.197	0.880	0.713	0.959	0.814	0.833	0.876	91	91	79	81	87	>1.00E-02	>1.00E-02
	0.349	1.657	1.606	1.494	1.415	1.380	1.464	96	88	81	79	85	>1.00E-02	>1.00E-02
	0.350	0.690	0.701	0.701	0.663	0.671	0.647	106	103	92	84	87	>1.00E-02	>1.00E-02
	0.330	1.267	1.113	1.130	1.167	1.104	1.054	70	82	80	76	88	>1.00E-02	>1.00E-02
SK-MEL-5	0.345	1.061	1.051	1.028	0.886	0.891	0.930	99	95	89	80	82	>1.00E-02	>1.00E-02
	0.346	2.127	2.076	2.082	2.081	2.137	2.043	107	102	91	91	79	>1.00E-02	>1.00E-02
	0.346	1.061	1.051	1.028	0.886	0.891	0.930	99	95	89	80	82	>1.00E-02	>1.00E-02
	0.346	1.061	1.051	1.028	0.886	0.891	0.930	99	95	89	80	82	>1.00E-02	>1.00E-02
	0.346	1.061	1.051	1.028	0.886	0.891	0.930	99	95	89	80	82	>1.00E-02	>1.00E-02
Ovarian Cancer	0.357	2.056	1.444	1.677	1.650	1.675	1.582	85	74	72	64	68	>1.00E-02	>1.00E-02
	0.209	0.916	0.931	0.942	0.932	0.860	0.973	104	109	99	106	108	>1.00E-02	>1.00E-02
	0.357	2.056	1.444	1.677	1.650	1.675	1.582	85	74	72	64	68	>1.00E-02	>1.00E-02
	0.357	2.056	1.444	1.677	1.650	1.675	1.582	85	74	72	64	68	>1.00E-02	>1.00E-02
	0.357	2.056	1.444	1.677	1.650	1.675	1.582	85	74	72	64	68	>1.00E-02	>1.00E-02
Prostate Cancer	0.332	0.846	0.749	0.746	0.700	0.684	0.692	73	70	66	64	65	>1.00E-02	>1.00E-02
	0.332	0.846	0.749	0.746	0.700	0.684	0.692	73	70	66	64	65	>1.00E-02	>1.00E-02
	0.332	0.846	0.749	0.746	0.700	0.684	0.692	73	70	66	64	65	>1.00E-02	>1.00E-02
	0.332	0.846	0.749	0.746	0.700	0.684	0.692	73	70	66	64	65	>1.00E-02	>1.00E-02
	0.332	0.846	0.749	0.746	0.700	0.684	0.692	73	70	66	64	65	>1.00E-02	>1.00E-02
Breast Cancer	0.361	2.217	1.345	1.618	1.375	1.278	1.380	84	68	52	49	44	>1.00E-02	>1.00E-02
	0.361	2.217	1.345	1.618	1.375	1.278	1.380	84	68	52	49	44	>1.00E-02	>1.00E-02
	0.361	2.217	1.345	1.618	1.375	1.278	1.380	84	68	52	49	44	>1.00E-02	>1.00E-02
	0.361	2.217	1.345	1.618	1.375	1.278	1.380	84	68	52	49	44	>1.00E-02	>1.00E-02
	0.361	2.217	1.345	1.618	1.375	1.278	1.380	84	68	52	49	44	>1.00E-02	>1.00E-02
MCF-7/DB-RES	0.590	0.886	0.985	0.988	0.938	0.924	1.020	100	100	93	84	109	>1.00E-02	>1.00E-02
	0.590	0.886	0.985	0.988	0.938	0.924	1.020	100	100	93	84	109	>1.00E-02	>1.00E-02
	0.590	0.886	0.985	0.988	0.938	0.924	1.020	100	100	93	84	109	>1.00E-02	>1.00E-02
	0.590	0.886	0.985	0.988	0.938	0.924	1.020	100	100	93	84	109	>1.00E-02	>1.00E-02
	0.590	0.886	0.985	0.988	0.938	0.924	1.020	100	100	93	84	109	>1.00E-02	>1.00E-02
MCF-7/DB-RES	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
MCF-7/DB-RES	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
MCF-7/DB-RES	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02
	0.511	1.555	1.055	1.072	1.050	1.080	1.054	85	87	84	86	80	>1.00E-02	>1.00E-02

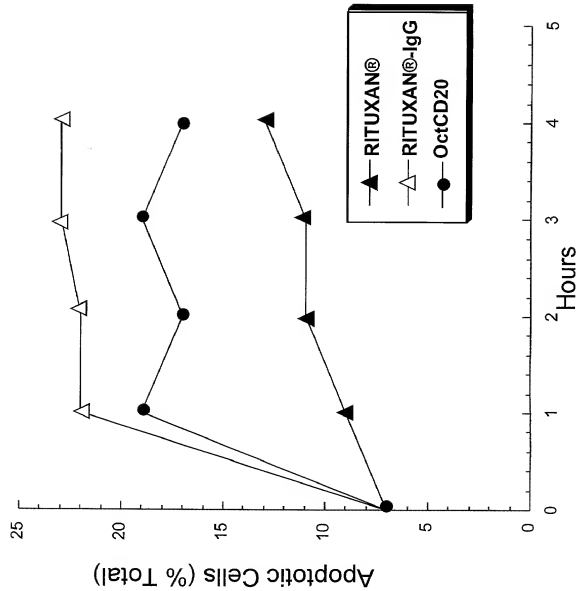
16E2 Octopus (anti-DR5) - 6 day

Panel/Cell Line	Time zero	Ctrl	Mean Optical Density				Log10 Concentration				Percent Growth				G510	FGI	LC50
			0.5	1.0	1.5	2.0	1.0	1.5	2.0	1.0	1.5	2.0					
Non-Small Cell Lung Cancer	PC9	0.004	0.711	0.832	0.730	0.789	0.720	0.103	114	100	108	98	14				
	H460	0.069	0.940	0.215	0.257	0.274	0.293	0.020	109	104	95	91					
	H460 (T8)	0.048	0.940	0.215	0.257	0.274	0.293	0.020	109	104	95	91					
	MD27-4	0.009	0.981	0.450	0.287	0.266	0.282	0.196	45	39	36	33					
	MD27-4	0.061	1.637	0.904	0.725	0.604	0.584	0.118	54	9	3	2					
Non-Small Cell Lung Cancer	PC9	0.004	0.711	0.832	0.730	0.789	0.720	0.103	114	100	108	98	14				
	H460	0.069	0.940	0.215	0.257	0.274	0.293	0.020	109	104	95	91					
	H460 (T8)	0.048	0.940	0.215	0.257	0.274	0.293	0.020	109	104	95	91					
	MD27-4	0.009	0.981	0.450	0.287	0.266	0.282	0.196	45	39	36	33					
	MD27-4	0.061	1.637	0.904	0.725	0.604	0.584	0.118	54	9	3	2					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
Breast Cancer	MCF-7	0.021	1.721	2.734	2.443	0.524	2.488	2.314	107	93	95	86					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.059	0.921	0.730	0.767	0.633	0.595	0.441	80	82	72	62					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74	66	68	61					
	MCF-7	0.110	0.732	0.642	0.373	0.325	0.315	0.141	74								

APO2L - 6 day

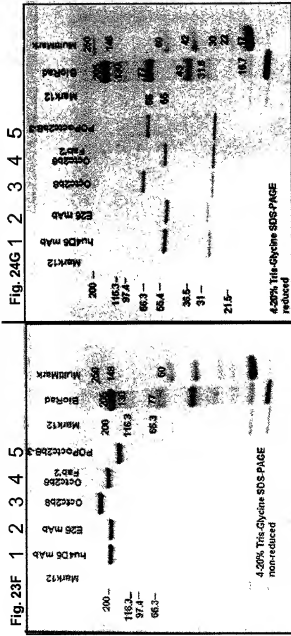
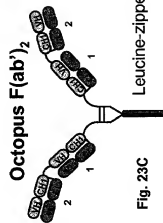
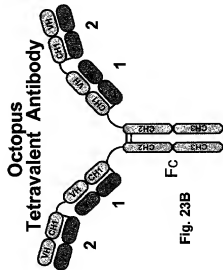
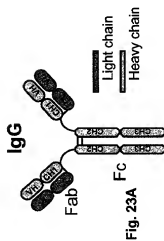
Time	Peak/Ctrl Line	Ctrl	Mean Optical Densities				Log10 Concentration				Percent Growth				G156	TGI	LC50
			0.5	1.0	1.5	2.0	0.5	1.0	1.5	2.0	0.5	1.0	1.5	2.0			
Non-Small Cell Lung Cancer	CCRF-CEP	0.004	0.842	0.753	0.653	0.365	0.574	0.569	89	54	43	68	67	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.006	2.942	0.740	0.720	0.220	0.716	0.620	162	108	105	97	<1.00E-06	<1.00E-06	<1.00E-06		
	H-460 (Tb)	0.009	1.400	0.929	0.318	0.965	0.939	0.797	89	89	73	96	76	<1.00E-02	<1.00E-02	<1.00E-02	
	MOLT-4	0.012	2.942	0.740	0.720	0.220	0.716	0.620	162	108	105	97	<1.00E-06	<1.00E-06	<1.00E-06		
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
Non-Small Cell Lung Cancer	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
Colon Cancer	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
Colon Cancer	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
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	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
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	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
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	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
Colon Cancer	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
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	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.951	0.722	0.538	0.641	0.025	0.022	88	88	74	70	65	<1.00E-02	<1.00E-02	<1.00E-02	
	H1975	0.011	2.9														

Fig. 22





# Size comparison of Octopus Constructs:



Non-Reduced	
Heavy + Light chain MW	
mAb	150 kDa
OctC2B8	240 kDa
OctC2B8 Fab'2	200 kDa
POPoctC2B8-3	140 kDa
POPoct-4	190 kDa

Reduced	
Heavy chain MW	
mAb	55 kDa
OctC2B8	75 kDa
OctC2B8 Fab'2	55 kDa
POPoctC2B8-3	73 kDa
POPoct-4	97 kDa



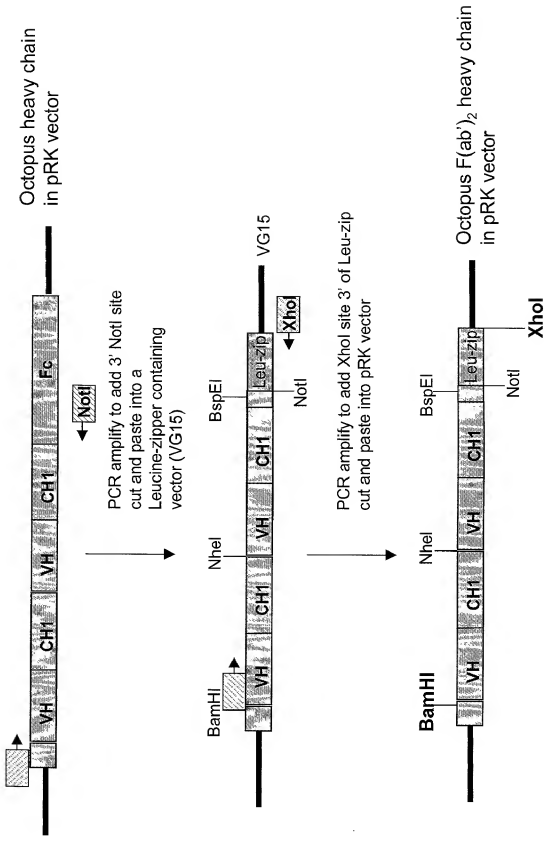


Fig. 24

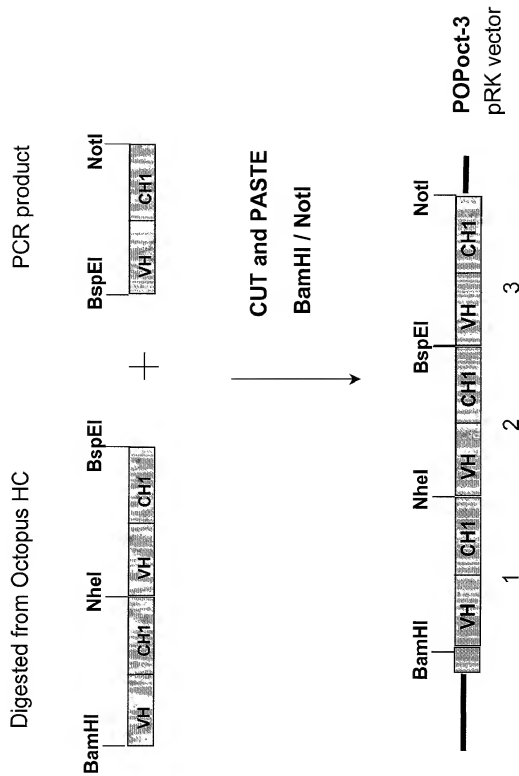


Fig. 25

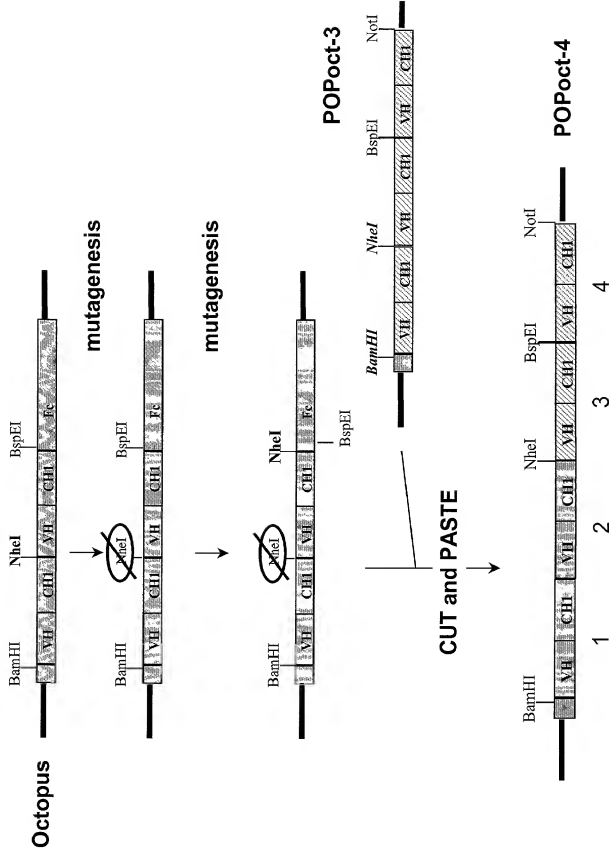
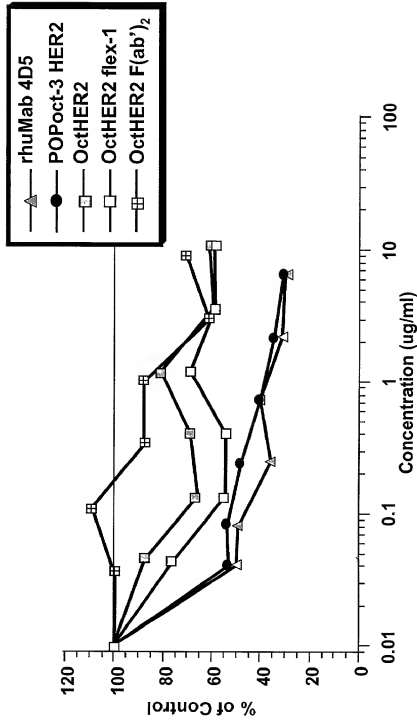


Fig. 26



Representative plot of  $n = 6$  cytotoxicity assays; crystal violet

Fig. 27

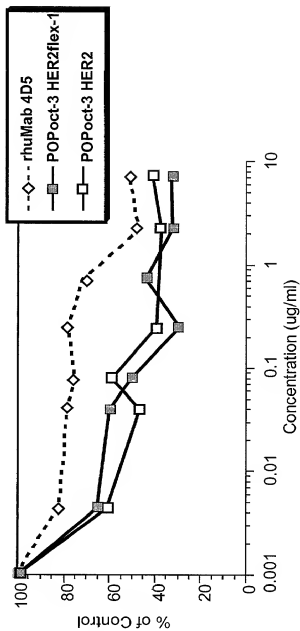


Fig. 28A

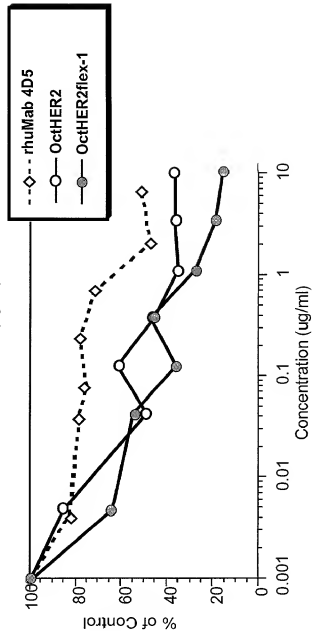


Fig. 28B

OctHER2..... POPOct-3HER2——

○ Unbound □ Cell surface bound △ Intracellular ◇ Catabolized

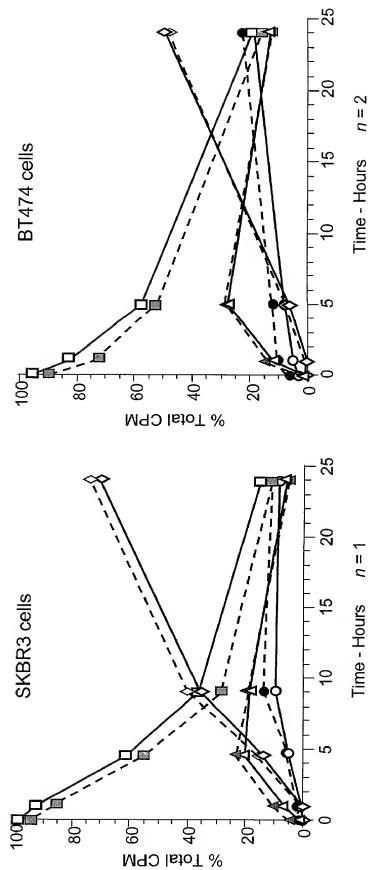


Fig. 29B

Fig. 29A

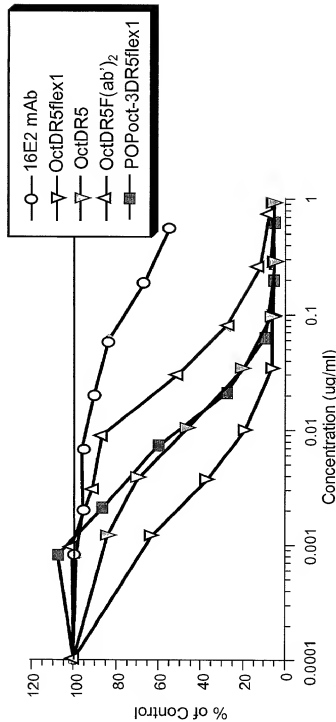


Fig. 30A

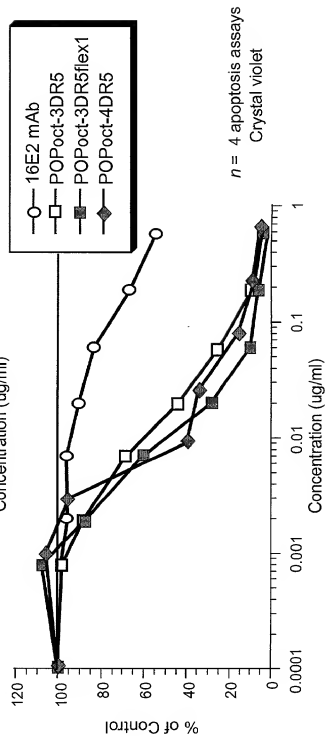


Fig. 30B



Fig. 31A

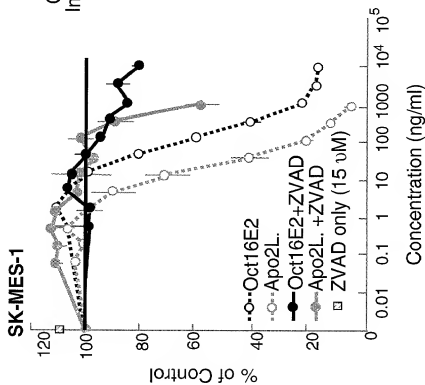


Fig. 31B

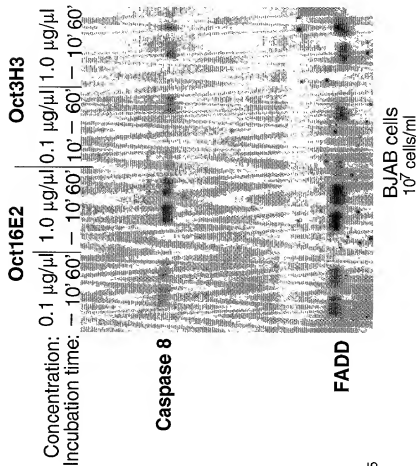


Fig. 32

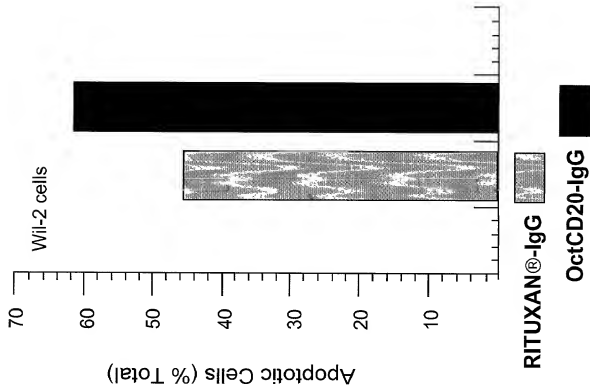


Fig. 33

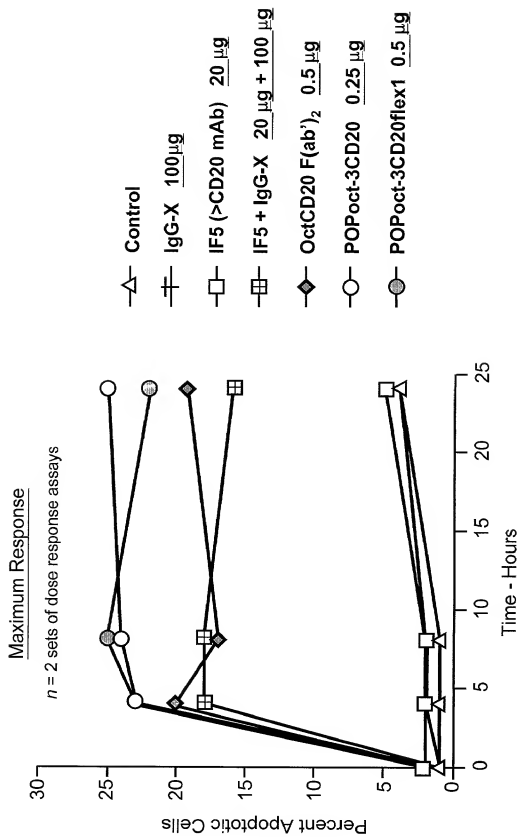
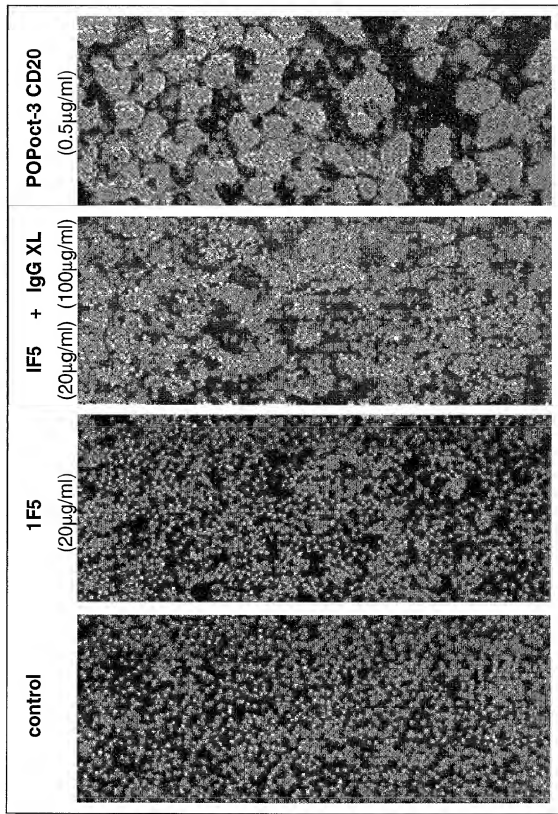
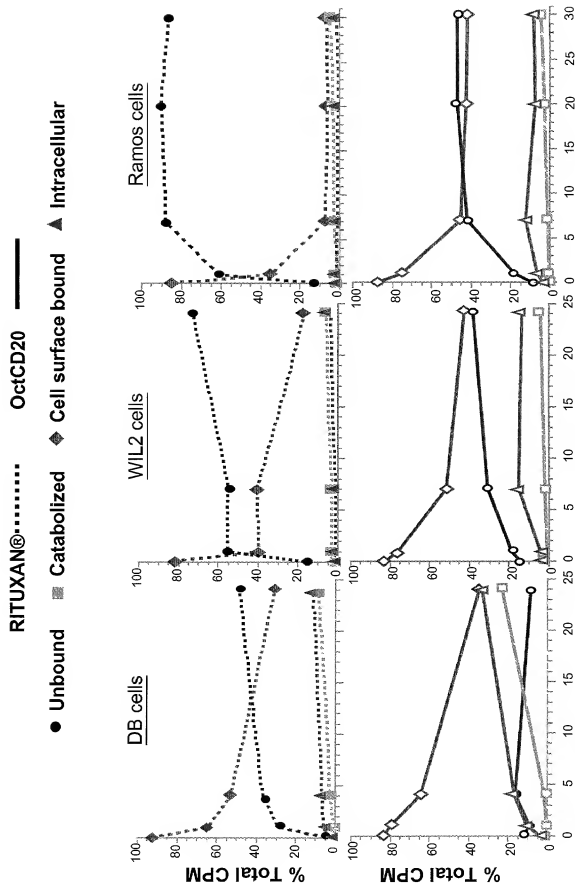


Fig. 34





Time - hours

Fig. 35